

CLAIMS

1. A process for preparing a reactive graphite-like layered material comprising the steps of:

binding atoms having a dangling bond together with each other which are adjacent to a vacancy included in a graphite-like layered material, for

5 reducing the number of dangling bonds in the vicinity of said vacancy to form an introducing site;

introducing a molecule or atom constituting the graphite-like layered material into the introducing site; and

10 generating a new bond between the introduced molecule or atom and the graphite-like layered material.

2. A process for preparing a reactive graphite-like layered material comprising the steps of:

forming a vacancy in a graphite-like layered material;

5 reducing the number of dangling bonds in the vicinity of said vacancy by binding atoms adjacent to said vacancy together with each other to form an introducing site;

introducing a molecule or atom constituting said graphite-like layered material into the introducing site; and

10 generating a new bond between said introduced molecule or atom and said graphite-like layered material.

3. The process as claimed in Claim 2, wherein the step of forming a vacancy comprises the step of irradiating said graphite-like layered material with an electron beam.

4. The process for preparing a reactive graphite-like layered material as claimed in any one of Claims 1 to 3, wherein said step of forming an introducing site or said step of generating a new bond comprises the step of conducting annealing or photoexciting treatment to the graphite-like layered material.

5. The process for preparing a reactive graphite-like layered material as claimed in any one of Claims 1 to 4, wherein said graphite-like layered material includes graphite.

6. The process for preparing a reactive graphite-like layered material as claimed in any one of Claims 1 to 4, wherein said graphite-like layered material comprises mainly nitrogen and boron atoms.

7. The process for preparing a reactive graphite-like layered material as claimed in any one of Claims 1 to 6, wherein said graphite-like layered material constitutes a side wall of a nanotube.